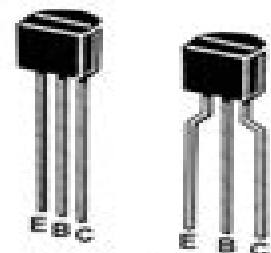


Threeneurons Kit Transistor Cross Reference

Part No.	Type	Absolute Maximum			hfe min	Acceptable Substitute
		V _{CEO}	I _C	P _D		
2N3904	NPN	40V	200mA	625mW	100	2N4401, MPSA05
2N3906	PNP	40V	200mA	625mW	100	2N4403, MPSA55
2N4401	NPN	40V	600mA	625mW	80	MPSA05
2N4403	PNP	40V	600mA	625mW	60	MPSA55
2N5401	PNP	150V	600mA	625mW	60	MPSA92, KSP92
2N6517	NPN	350V	500mA	625mW	30	MPSA42, KSP42
2N6520	PNP	350V	500mA	625mW	30	MPSA92, KSP92
MPSA05	NPN	60V	500mA	625mW	100	2N4401
MPSA55	PNP	60V	500mA	625mW	50	2N4403
MPSA65	PNP	80V	500mA	625mW	50	2N5401
MPSA42	NPN	300V	500mA	625mW	25	KSP42, PSA42, 2N6517
MPSA92	PNP	300V	500mA	625mW	25	KSP92, 2N6520
KSP42	NPN	300V	500mA	625mW	40	MPSA42, PSA42, 2N6517
PSA42	NPN	300V	500mA	625mW	25	MPSA42, KSP42, 2N6517
KSP92	PNP	300V	500mA	625mW	25	MPSA92, 2N6520

This is the acceptable substitute guide for TO-92 packaged transistors used in my kits. I design to the broadest of part variation, so the kit will still work, indifferent to the actual part parameters. I do not "TWEAK", or "batch" parts. I will not make a kit, that requires such tight specs ! Those are high performance instruments, not a hobbyist kit !



TO-92

Transistor Cross Reference Guide Tip 137

M Carnoy



Transistor Cross Reference Guide Tip 137:

Instrumentation Reference Book Walt Boyes, 2009-11-25 The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of sensors computers and control systems This 4e of the Instrumentation Reference Book embraces the equipment and systems used to detect track and store data related to physical chemical electrical thermal and mechanical properties of materials systems and operations While traditionally a key area within mechanical and industrial engineering understanding this greater and more complex use of sensing and monitoring controls and systems is essential for a wide variety of engineering areas from manufacturing to chemical processing to aerospace operations to even the everyday automobile In turn this has meant that the automation of manufacturing process industries and even building and infrastructure construction has been improved dramatically And now with remote wireless instrumentation heretofore inaccessible or widely dispersed operations and procedures can be automatically monitored and controlled This already well established reference work will reflect these dramatic changes with improved and expanded coverage of the traditional domains of instrumentation as well as the cutting edge areas of digital integration of complex sensor control systems Thoroughly revised with up to date coverage of wireless sensors and systems as well as nanotechnologies role in the evolution of sensor technology Latest information on new sensor equipment new measurement standards and new software for embedded control systems networking and automated control Three entirely new sections on Controllers Actuators and Final Control Elements Manufacturing Execution Systems and Automation Knowledge Base Up dated and expanded references and critical standards

Functional Polymer Coatings Limin Wu, Jamil Baghdachi, 2015-06-15 Focusing on a variety of coatings this book provides detailed discussion on preparation novel techniques recent developments and design theories to present the advantages of each function and provide the tools for better product performance and properties Presents advantages and benefits of properties and applications of the novel coating types Includes chapters on specific and novel coatings like nanocomposite surface wettability tunable stimuli responsive anti fouling antibacterial self healing and structural coloring Provides detailed discussion on recent developments in the field as well as current and future perspectives Acts as a guide for polymer and materials researchers in optimizing polymer coating properties and increasing product performance

NBS Special Publication, 1971 [An Index of U.S. Voluntary Engineering Standards](#) William J. Slattery, 1971 [An Index of U.S. Voluntary Engineering Standards](#) United States. National Bureau of Standards, 1971 [Diffusion and Defect Data](#), 2001 **Popular Electronics**, 1979

[Electronic Industries](#), 1958 [EE Systems Engineering Today](#), 1958 **Japanese Technical Abstracts**, 1986

Electronic Industries & Tele-tech, 1958 **Sensors, Update 13** Henry Baltes, W. Göpel, Gary K. Fedder, J. Hesse, Jan G. Korvink, 2004 Sensors Update includes information at the cutting edge of sensor research and related topics such as MEMS An overview of highlights in this exciting area is presented that covers current developments in materials design production

and application of sensors and other micro and nanosystems Volume 13 gives you an insight into the modelling and simulation of microdevice self assembly and the alternatives for smart sensor interfaces Fluorescent microspheres for ion sensing are reviewed and from the medical and biosciences sector optical sensor applications catheter sensors microelectronic chips for molecular and cell biology as well as microvalves for bioassays miniature GC systems and micro fuel cells are presented The unique approach makes Sensors Update a valuable reference work for scientists and engineers in industry and at universities to sensors developers distributors and users All volumes of Sensors Update are also available online at our Wiley InterScience site <http://www.interscience.wiley.com/cgi-bin/jhome/78505815> *Electronics World* ,1968

Modern Electronics ,1988 *The Zenith Trans-Oceanic* John H. Bryant, Harold N. Cones, 1995 The previously untold story of the Zenith Trans Oceanic the world's most romantic and expensive series of portable radios Long a companion of kings presidents transoceanic yachtsmen and world explorers the Trans Oceanic was also carried into battle by American troops in three wars Its great popularity in spite of a very high price can be laid at the feet of several generations of armchair travelers who used the shortwave capabilities of the Trans Oceanic as a window on the world With access to the Zenith corporate archives and their long experience as radio enthusiasts and writers for both the popular and scholarly press Professors Bryant and Cones present the engrossing stories of the development and use of the Trans Oceanic throughout its forty year life They present a wealth of never before published photographs documents and information concerning these fascinating radios their collection preservation and restoration **Popular Mechanics** ,1964-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle *Publications, Reports and Papers for ... from Oak Ridge National Laboratory* Oak Ridge National Laboratory, 1964 **Publications, Reports, and Papers for 1961- from Oak Ridge National Laboratory** Oak Ridge National Laboratory, 1965 **Popular Mechanics** ,1975-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Radio-electronics** ,1987

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